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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,113	06/25/2008	Rachel Yerushalmi-Rozen	0-06-165 9526	
42009 KEVIN D. MCC	7590 01/08/201 CARTHY	EXAMINER		
	VN MCCARTHY & G	NERANGIS, VICKEY MARIE		
424 MAIN STR 1920 LIBERTY		ART UNIT	PAPER NUMBER	
BUFFALO, NY	14202	1796		
			MAIL DATE	DELIVERY MODE
			01/08/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Δ	Application No.	Applicant(s)			
			10/587,113	YERUSHALMI-ROZEN, RACHEL			
		E	xaminer	Art Unit			
			/ickey Nerangis	1796			
Period fo	The MAILING DATE of this communica or Reply	ation appea	rs on the cover sheet with the c	orrespondence ad	ddress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)[\	Responsive to communication(s) filed	on 27 Octo	her 2000				
•	Responsive to communication(s) filed on <u>27 October 2009</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.						
′=		<i>'</i> —		secution as to the	e merite is		
J)ا	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4) Claim(s) 1-39 is/are pending in the application. 4a) Of the above claim(s) 18-39 is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-17 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers						
9)	The specification is objected to by the I	Examiner.					
10)	The drawing(s) filed on is/are: a	a) accept	ted or b) objected to by the	Examiner.			
	Applicant may not request that any objection	on to the dra	wing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
	e of References Cited (PTO-892)	2.040	4) Interview Summary				
3) Inform	e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	D-948)	Paper No(s)/Mail Date of Informal F  6) Other:				

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## **DETAILED ACTION**

1. All outstanding rejections are withdrawn in light of applicant's amendment filed on 10/27/2009.

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.
- 3. The new grounds of rejection set forth below are necessitated by applicant's amendment filed on 10/24/2009. In particular, claim 1 has been amended to limit the amount of block copolymer to 0.3-10 wt % of the fluid medium. Thus, the following action is properly made final.

## Claim Rejections - 35 USC § 103

4. Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smalley (US 7,074,310).

Smalley discloses a method for separating nanotubes by mixing nanotubes in a fluid such as an aqueous system containing surfactant molecules (col. 8, line 38 to col. 10, line 20) such as block copolymers of polyethylene and polypropylene glycol (col. 10, lines 1-2). In example 1, carbon fibers were mixed in a solution of 1 wt % surfactant by high shear mixing followed by sonnication and centrifuge (col. 26, lines 14-31). Some samples include 20 mg/liter of nanotubes in 1 wt % surfactant (col. 26, lines 61-63), which provides for an amount of about 20 wt % carbon nanotubes in the mixture.

Smalley fails to disclose the amount of block copolymer is used in the aqueous system.

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However, given that Smalley exemplifies the use of a 1 wt % surfactant concentration, it would have been obvious to one of ordinary skill in the art to utilize approximately this same amount with another surfactant such as block copolymer.

## Response to Arguments

5. Applicant's arguments with respect to Kang have been considered but are moot in view of the new ground(s) of rejection.

## Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vickey Nerangis whose telephone number is (571) 272-2701.

The examiner can normally be reached on Monday - Friday, 8:30 a.m. - 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

vn

/Vickey Nerangis/

Primary Examiner, Art Unit 1796